_
\subseteq
Ō
\cap
Z
I
\exists
0
0
0
\mathcal{N}
0
_
V

	·	
ADDRESSUMETCO MINERALS CORPORATION	Operated by CHEM- P O Box 726, Barny	MANAGEMENT FACILITY NUCLEAR SYSTEMS, INC ell, South Carolina 29812 (4) Tri- CARRIER Stabe ADDRESS joplin, Missouri 64801
CITY Niagara Falls STATE New York CONTACT G E Walck PHONE (716)278-3361	(803) RADIOACTIVE SHIF	259 1781 MENT MANIFEST FORM TELEPHONE 417-624-3131 SHIPPING DATE 9/5/84 SHIPMENT TYPE Van SHIPMENT SURFACE EXPOSURE 032 mr/1 SHIPMENT NO 615-3006 LINER SERIAL NO
(2) consigned to CHEM NUMBER SYSTEMS INC. (3) US	CAUTIAL LATION DACEC	DRIVER SIGNATURE Forme Date 9-5-84
(5) TOTAL FOR PROPER SHIPPING NAME & HAZARD C EACH CLASS (PER 49 CFR 172 101)	CLASS ID NUME	LECTOR CRAME
NO OF PACKAGES Radioactive Material, empty packages Radioactive Material, issale, n o s — Radioactive Material Radioactive Materia	UN29 UN29 e Material UN29 UN29	VOLUME TOTAL NO OF Finel PACKAGES SOURCE PACKAGES SOURCE PACKAGES SOURCE PACKAGES SOURCE PACKAGES SOURCE PACKAGES TRITIUM C 14 Ic 99 I 129 I 1
Radioactive Material, limited quantity, n o s —Radioactive Material, special form, n o s —Radioactive Mater Radioactive Material, instruments and articles—Radioactive Other (Specify).	aterial UN29	0 (8) TOTAL PALLET 17/4
Contaminated Soil (9) WASTE DESCRIPTION Misc. Debris SOL	YSICAL FORM/ IDIFICATION AGENT Solid	(11) CHEMICAL FORM AND NAME AND % OF CHELATING AGENT(S) Meta1 Oxides (12) WASTE FORM CLA ★ □ □ □ □ C
(13) (X) Yes () No THIS VEHICLE IS CONSIGNED EXCLUSIVE USE LOADING ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS (14) IMPORTANT 'This is to certify that the above named materials are properly cland labeled and are in proper condition for transportation according to the app Transportation Signature	DESIGNATED AGENT lassified described packaged marked discable regulations of the Department of	Certification is hereby made to the South Carolina Department of Health and Environmental Control that this shipm of low level radioactive waste has been inspected in accordance with the requirements of South Carolina Radioac Material License No. 097 as amended and the Nuclear Regulatory Commission's License No. 12 13536 0 aniended and the effective Barnwell Site Disposal Criteria within 48 hours prior to shipment and further certificationade that the inspection revealed no items of non-compliance with all applicable laws rules and regulations. Date 9/5/84 By Title and Organization Construction Superentendent – Umetco Minerals Corp.
Company Umetco Minerals Corp.	Date 9/5/84	Telephone No (716 278-3361
This material was disposed of in accordance with license	P 14 1984	
Discrepancy		

UCCNHT0002013

BARNWELL WASTE MANAGEMENT FACILITY Operated by CHEM NUCLEAR SYSTEMS, INC

DMITCO MINERALS CORPORATION

USE THIS NUMBER ON VOLUME ALLOCATION NO ALL CONTINUATION PAGES

PAGE 2 of 2

CONTINUATION SHEET

(16) ITEM NO	(17) RADIO NUCLIDE EACH CONTAINER	(18) PERCENT OF ACTIVITY EACH NUCLIDE	(19) ACTIVITY EACH CONTAINER (mCi)	(20) PHYSICAL FORM	(21) CHEMICAL FORM AND NAME & 8 OF CHELATING AGENT	(22) WASTE DESCRIPTION	(23) WASTE FORM CLASS	(24) STABILITY CLASS (S. U	(25) SPECIAL NUCLEAR MATERIA (grams)	MATERIAL L (pounds)	(27) DISPOSABLE CONTAINER WEIGHT (pounds)	(28) DISPOSABLE CONTAINER VOLUME (Cir Ft)	(29) CONTAINER TYPE	CONTAINER SURFACE D mR/FR	LEVELS	ים) מ ים)	(31) NTAMINATION CONTAINER SURFACE PM/100cm2) a Beta Garina	(32) DOT SUB TYPE (A1 A2 LSA etc)	(33) FISSILE CLASS	(34 LABE MARKI USE	LS/ NGS
133	U238	<u> N/A</u>		Solid			Α	Ü	N/A	0.1	5372	65	SIC	.025	.012		CMDA	LSA	11/4	Radioactive—	154
	2 د ۲ – ۱۱۱		004			· · · · · · · · · · · · · · · · · · ·		·								*******	 	1		Radioactive—	A.
139	U-258		0028					<u> </u>		0.1	5040	€5	5TC	.034	. 015	ΛÜΔ	ACRAS	LSA	M/A	Radioactive—	134
	1H-232		004														 	1		Radioactive -	LCSA
141	0-238		.0028			9 				Ü.1	5554	65	STC	.036	013	OT) A	CHOA	I SA	Ν/Δ	Radioactive—	.1.5.Δ
	TH-232	_	.004			S E E			<u> </u>								- 1: <i>J:</i> 1	1-1.5/	- N/A	Radioactive—	!.SA
14.	U-238		-0028			5 2 5				0.1	5472	65	STC	014	013	Q(D) A	√ 10 A	LSA	N / A	Radioactive—	AZI
	TH- 232		.004		4	11 22 4		!								1 11/11		1	18/11	Radioactive-	A
143	ш=238_		3.00.		īΥ	3.5				0.1	5.266	_65	SIC	032	013	MILA	(A7)A	154	13 / A	Radioactive—	154
	1.1-232		.004		Ü	F4										2.111	!	1-1.52:	<u> </u>	Radioactive—	
144	11-238		.0028			<u> </u>				12.1	4583	65	STO	036	014	Ama	CMDA	ISA	N/A	Radioactive—	LCA
	<u>10E232</u>		.004		ñ	0.24	$\perp \perp$												N / B	Radioactive—	I.NA
145	11-238		0028		ij	0 64 64			l	ـ دهـ ا	5154	. 65	erec	732	015	DOM.	! - <u>Κ</u> πιΔ	1.54	3/4	Radioactive—	155
	<u>.: H- `3</u>		0ua				$\perp \perp$: 			Rad-pactive—	-1-:
146	117 ,3		0025							2.1	4736	C5	0.10	1130	1.1.5	éma.	CMDA	154	NI/A	Radioactive—	2 .2 1
	14-232		004				علما	1	را							3		1 1 1 1 1 1	- N / E	Radioactive—	<u> </u>
						 														Radioactive—	
																				Radioactive—	
																				Radioactive	
							<u> </u>													Radioactive-	
																				Radioactive—	• • • • • • • • • • • • • • • • • • • •
																				Radioactive—	
						·														Radioactive—	
							L													Radioactive—	
																				Radioactive—	
																				Radioactive—	
																				Radicactive—	
						· · · · · · · · · · · · · · · · · · ·			<u> </u>											Radioactive—	
																		 +		Radioactive—	
																				Radioactive—	
		Į				PAGE TOTALS				0.8	41207	520						II-		THE STORE CHARLE	

Form No CNS 201 (9-83)

CUSTOMER'S COPY

8073

Gunt.

मंब्रा

: [####

Shapment No. 615-3006

Carrier s No __657967

Tri-State Motor Transit Company

Name of Carrier

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading

UMITTOO MINERALS CORPORATION

AT Marietta Ohio

September 5 ,19 84 From

METALS-DIVISION

UNION CARBIDE CORPORATION

Klagara Falls, NY
For use via carrier truck under the exclusive/sole use shipments/movements the property described below, in apparent good order except as noted (contents and condition of contents of packages unknown) marked consigned and destined as indicated below which said carrier (the word carrier being understood through out this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail or a rail water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

	CHEM NUCLEAR SYSTEMS, IN	C.		SHIPPERS OR	DER NO	CUSTOMER'S ORDER NO
Consigned t	TO UCCOMMUNICATION BARNWELL MANAGEMENT FACE					
Destination	Urayan Barnwell (Osborn Road)	State ColoradoX	S. Car	olina (County Mont	Barnwell
Route						
Delivering (Carrier Tri-State Motor Transit	Car or _Vehicle Initials	8136	No _	448122	Seal 262506 No
No Packages	Kind of Package, Description of Articles, Special marks, and Exceptions	*Weight (Sub to correction)	‡Class or Rate	Check Column	of applicable shipment is consignee w	Section 7 of Conditions bill of lading, if this to be delivered to the ithout recourse on the
8	Radioactive Materials, LSA, nos (520 cu. ft.)	<u></u>			the following	
	Rádioactive Máterial AUNE 2912.				ery of this ment of fre	r shall not make deliv shipment without pay ght and all other lawful
	X)-Navural-v				charges	
	Uramum/(Phorium Residues (Erom/Chemical Processing)				(Sign	ature of consignor)
	0016 Maxy Cumestper Package: Less than one (1) pound so	urce		If Etharges	Fare 1762 be Eprepaid (write- 12. Tobe Prepaid ()
	material - solid, metal oxide, contami	rated soil			1	Party
	building rubble, wood and plant equip	nent.			PREPAID	(See Below)∜
					Received \$	
	This is to certify that the above named materials are prope marked and labeled, and are in proper condition for transportations of the Department of Transportation	rly classified des ortation accordin	cribed, pa g to the ap	ckaged. plicable	on the prope	prepayment of the charges try described hereon
	Signed	C, Wal	C.K.		^,	gent or Cashier
-					Per	
	Vehicle assigned for sole use of consignor. Do not load of	only the amo	nature here acknowledges unt prepaid)			
	transfer in route and do not break the seal on truck				c	narges advanced
		•] s	
	Carrier hereby acknowledges that prior to or at the till transportation the shipper provided or affixed, according required placards or orange panels (including prescribed hazardous material named hereon	ing to applicable	e regulatio	ons the	Correct weigh Subject to ve	ent is correctly described it islbs ification by the Evans o Minorals Com
	e e					
	Signed Herze	May	7		P.O.	Box 97
	Signed Jene	play	7			
	Signed Herze	Ploy	7			
The agreed or	Signed Si		7			

Form RHA-PNC (5/80)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTRL Radioactive Waste Shipment Prior Notification and Manifest Form

	See	Reverse Side :	for Instructions					
ī	Name and Address of Shipper		Person Responsible for Radioactive					
	Umetco Minerals Corporat	tion	Waste Shipment (a) Name G.E. Walck					
	137 47th Street	_	(b) Title Construction Superintend					
ì	Niagara Falls, NY 14302	2	(c) Telephone No (716) 278-3361					
3.	Radioactive Waste Transport Pe	rmit No	4. Shipment I	Identification No.				
	0211-31-84-X		0984-21	2A				
<u>-</u>	Location from which waste will	be shipped	6 Name and A	Address of Consignee				
٠.				clear Systems, Inc.				
-	Same as (1) above		P.O. Box 726 Barnwell. South Carolina 29812					
	Scheduled Date of Departure of	Shipment	8. Estimated	Date of Arrival of Shipment				
7.		Sittpinette						
	September 5, 1984			er 7, 1984				
9	Carrier	10 Type of T	ransport Vehicle	ll Trailer No and Owner (if ayailable)				
Тт	rı-State Motor Transıt	Close		448127				
12	Routes shipment will follow i	n State of Sou	th Carolina (Be S	pecific)				
	I-20, I-26, US-321, S	.C. 3 and S	.C. 64					
	,,,,,							
		Manifest	Summary					
13	Type Container or Cask	14 Contain		15. Total No of Containers				
		CFR 49 17	2 202 (a)	Q				
	Wood Boxes		3.392 (C)	t Radionuclides				
16	Waste Description, Physical a Chemical Form Contaminate		1	m (Nat.) .0028				
Μe	etal Oxides, Bldg. Rubb	le. Wood						
	nd Plant Hardware		<u> </u>	m (Nat.) .004				
	Total Curies (mC1)	19 Transpor	rt Group	20 Istal cubit rect				
	• • •	II	Т	520				
	.054	++	·	1				
21	.UJ4 Waste Classification							
2 N	Waste Classification Radioactive LSA [] Bulk L	SA	Normal Form	Special Form Fissile				
2 N	Waste Classification Radioactive LSA [] Bulk Li Radioactive LSA [] Limited	SA d quantities	Normal Form [] Type A quantity	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II				
.2 ដ	Waste Classification Radioactive LSA [] Bulk LS Radioactive LSA [] Limites greater than and rad	SA d quantities dioactive	Normal Form	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II				
.2 ដ	Waste Classification Radioactive LSA [] Bulk Li Radioactive LSA [] Limited	SA d quantities dioactive s	Normal Form [] Type A quantity [] Type B quantity [] Large quantity	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II				
2 N	Waste Classification Radioactive LSA [] Bulk LS Radioactive LSA [] Limites greater than and rad	SA d quantities dioactive s	Normal Form [] Type A quantity [] Type B quantity	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II				
12 td ()	Waste Classification Radioactive LSA [] Bulk L Radioactive LSA [] Limites greater than and rac Type A quantities device.	SA d quantities dioactive s	Normal Form [] Type A quartity [] Type B quantity [] Large quantity ICATION	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class II: oth Carolina Department of Health				
12 M []	Waste Classification Radioactive LSA [] Bulk L Radioactive LSA [] Limites greater than and rac Type A quantities device. hereby certify on behalf of th	CERTIF e above-named	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health as complete and correct to the				
12 isi []	Waste Classification Radioactive LSA [] Bulk L Radioactive LSA [] Limites greater than and rac Type A quantities device. hereby certify on behalf of the definition of the control of the	CERTIF e above-named he information	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou provided herein i	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health as complete and correct to the the provisions as required by				
.2 M []	Waste Classification Radioactive LSA [] Bulk L Radioactive LSA [] Limites greater than and rac Type A quantities device. hereby certify on behalf of the definition of the control of the	CERTIF e above-named he information	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou provided herein i	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health as complete and correct to the the provisions as required by				
12 isi []	Waste Classification Radioactive LSA [] Bulk Li Radioactive LSA [] Limites greater than and rac Type A quantities device. hereby certify on behalf of the definition of the control that the est of my knowledge, and that the tot No 499 of 1980, the South C	CERTIF e above-named he information	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou provided herein i	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health as complete and correct to the the provisions as required by				
I2 M II	Waste Classification Radioactive LSA [] Bulk L Radioactive LSA [] Limites greater than and rac Type A quantities device. hereby certify on behalf of the definition of the control of the	CERTIF e above-named he information	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou provided herein i	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health as complete and correct to the the provisions as required by				
.2 M []	Waste Classification Radioactive LSA [] Bulk Li Radioactive LSA [] Limites greater than and rac Type A quantities device. hereby certify on behalf of the definition of the control that the est of my knowledge, and that the tot No 499 of 1980, the South C	CERTIF e above-named he information	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou provided herein i	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health as complete and correct to the the provisions as required by				
.2 ki [] I an be Ac	Waste Classification Radioactive LSA [] Bulk Li Radioactive LSA [] Limites greater than and rac Type A quantities device hereby certify on behalf of the add Environmental Control that the est of my knowledge, and that the tot No 499 of 1980, the South Control LE. Walck - Construction	CERTIF e above-named he information he shipper has arolina Radioa	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou provided herein i	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health as complete and correct to the [] the provisions as required by portation and Disposal Act **Wack**				
.2 ki [] I an be Ac	Waste Classification Radioactive LSA [] Bulk LS Radioactive LSA [] Limites greater than and rac Type A quantities device hereby certify on behalf of the find Environmental Control that the est of my knowledge, and that the ct No 499 of 1980, the South Cate	CERTIF e above-named he information he shipper has arolina Radioa	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou provided herein i	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health is complete and correct to the the provisions as required by				
.2 ki [] I an be Ac	Waste Classification Radioactive LSA [] Bulk Li Radioactive LSA [] Limites greater than and rac Type A quantities device hereby certify on behalf of the add Environmental Control that the est of my knowledge, and that the tot No 499 of 1980, the South Control LE. Walck - Construction	CERTIF e above-named he information he shipper has arolina Radioa	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou provided herein i	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health as complete and correct to the [] the provisions as required by portation and Disposal Act **Wack**.				
I an be Ac	Waste Classification Radioactive LSA [] Bulk Li Radioactive LSA [] Limites greater than and rac Type A quantities device hereby certify on behalf of the add Environmental Control that the est of my knowledge, and that the tot No 499 of 1980, the South Control LE. Walck - Construction	CERTIF e above-named he information he shipper has arolina Radioa	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou provided herein i complied with all ctive Waste Transp	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health as complete and correct to the [] the provisions as required by portation and Disposal Act				
I an be Ac	Waste Classification Radioactive LSA [] Bulk Li Radioactive LSA [] Limites greater than and rad Type A quantities device hereby certify on behalf of the add Environmental Control that the est of my knowledge, and that the tot No 499 of 1980, the South Control ate	CERTIF e above-named he information he shipper has arolina Radioa	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou provided herein a complied with all ctive Waste Transp Signature KNOWLEDSEMENT	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health as complete and correct to the [] the provisions as required by portation and Disposal Act [] Alck (G.E. Walck)				
I an be Ac	Waste Classification Radioactive LSA [] Bulk Li Radioactive LSA [] Limites greater than and rac Type A quantities device hereby certify on behalf of the definition of the lest of my knowledge, and that the est of my knowledge, and that the ct No 499 of 1980, the South Co ate	CERTIF e above-named he information he shipper has arolina Radioa n Supt. Shipper	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou provided herein is complied with all ctive Waste Transp Signature EKNOWLEDSEMENT	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health as complete and correct to the [] the provisions as required by portation and Disposal Act [] Alck (G.E. Walck)				
1 and bee Ac	Waste Classification Radioactive LSA [] Bulk Li Radioactive LSA [] Limites greater than and rad Type A quantities device hereby certify on behalf of the add Environmental Control that the est of my knowledge, and that the tot No 499 of 1980, the South Control ate	CERTIF e above-named he information he shipper has arolina Radioa n Supt. Shipper	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou provided herein is complied with all ctive Waste Transp Signature EKNOWLEDSEMENT	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health as complete and correct to the [] the provisions as required by portation and Disposal Act				
I an be Ac	Waste Classification Radioactive LSA [] Bulk LS Radioactive LSA [] Limites greater than and rad Type A quantities device. hereby certify on behalf of the definition of the control that the est of my knowledge, and that the est No 499 of 1980, the South Control ate	CERTIF e above-named he information he shipper has arolina Radioa n Supt. Shipper	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou provided herein is complied with all ctive Waste Transp Signature EKNOWLEDSEMENT	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health as complete and correct to the [] the provisions as required by portation and Disposal Act [] Alck (G.E. Walck)				
I an be Ac	Waste Classification Radioactive LSA [] Bulk Li Radioactive LSA [] Limites greater than and rac Type A quantities device hereby certify on behalf of the definition of the lest of my knowledge, and that the est of my knowledge, and that the ct No 499 of 1980, the South Co ate	CERTIF e above-named he information he shipper has arolina Radioa n Supt. Shipper	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou provided herein i complied with all ctive Waste Transp Signature CKNOWLEDSEMENT partment of Health ment was received	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health is complete and correct to the interpretation and Disposal Act [] Mack [] (G.E. Walck) [] and Environmental Control that				
I an be Ac	Waste Classification Radioactive LSA [] Bulk Li Radioactive LSA [] Limites greater than and rad Type A quantities device hereby certify on behalf of the definition of the certification of the certi	CERTIF e above-named he information he shipper has arolina Radioa n Supt. Shipper	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou provided herein is complied with all otive Waste Transport of Waste Transport of Health thent was received	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health as complete and correct to the [] the provisions as required by portation and Disposal Act [] Alck (G.E. Walck)				
I an be Ac	Waste Classification Radioactive LSA [] Bulk LS Radioactive LSA [] Limites greater than and rad Type A quantities device. hereby certify on behalf of the definition of the control that the est of my knowledge, and that the est No 499 of 1980, the South Control ate	CERTIF e above-named he information he shipper has arolina Radioa n Supt. Shipper	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou provided herein i complied with all ctive Waste Transp Signature CKNOWLEDSEMENT partment of Health ment was received	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health as complete and correct to the [] the provisions as required by portation and Disposal Act [] G.E. Walck and Environmental Control that				
I an be Ac	Waste Classification Radioactive LSA [] Bulk Li Radioactive LSA [] Limites greater than and rad Type A quantities device hereby certify on behalf of the definition of the certification of the certi	CERTIF e above-named he information he shipper has arolina Radioa n Supt. Shipper	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou provided herein is complied with all otive Waste Transport of Waste Transport of Health thent was received	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health as complete and correct to the [] the provisions as required by portation and Disposal Act [] G.E. Walck and Environmental Control that				
.2 ki [] I an be Ac	Waste Classification Radioactive LSA [] Bulk Li Radioactive LSA [] Limites greater than and rad Type A quantities device hereby certify on behalf of the definition of the certification of the certi	CERTIF e above-named he information he shipper has arolina Radioa n Supt. Shipper	Normal Form [] Type A quantity [] Type B quantity [] Large quantity ICATION shipper to the Sou provided herein is complied with all otive Waste Transport of Waste Transport of Health thent was received	Special Form Fissile [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III [] the Carolina Department of Health as complete and correct to the [] the provisions as required by portation and Disposal Act [] G.E. Walck and Environmental Control that				

Original: S. Caroffina Copy. Chem-Nuclear

Form RHA-CT (5/80)

SCUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL Radioactive Waste Shipment Certification Form

General Instructions and Information: This is a two part form to be used by shippers and carriers of radioactive waste. The certifications contained herein satisfy the requirements of Section 13-7-150, of Act No. 499 of 1980, the South Carolina, Radioactive Waste Transportation and Disposal Act. This certification along with a copy of the prior notification form shall accompany each shipment of radioactive waste into and within the State of South Carolina. The shipper is to complete his portion of the form and present it to the carrier as part of the shipping documents. Upon receipt, the carrier shall complete his portion of the form. Upon delivery of the shipment to the consignee, a copy of this certification form, and a copy of the Prior Notification and Manifest form with the consignee acknowledgement, shall be returned to the Department.

Part I:	Shipper's Certificate of Compliance
1. Name of Shipper and Address:	2. Shipment Identification No.
Umetco Minerals Corporation 137 - 47th Street	0984-212A
Niagara Falls, NY 14302 Telephone No. (716) 278-3361	3. Transport Permit No. 0211-31-84-X

In compliance with Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act, I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the above-named shipper has complied with all provisions of Act No. 499 of 1980, and all applicable laws and administrative rules and regulations, buth State and Federal, regarding the packaging, transportation, storage, disposal and delivery of such wastes. I further certify that this shipment of radioactive waste has been inspected within 48 hours of the time of departure and that no items of non-compliance with applicable laws, rules or regulations were found.

Date	September	5,	1984
			

G.E. Walck, Construction Superintendent

Typed Name and Title of Agent of Shipper

Signature Signature

Part II: Carrier's Certification				
1. Name of Carrier and Address: Tri-State Motor Transit Company	2. Shipment Identification No. 0984-212A			
P.O. Box 113 Joplin, Missouri 64801 Telephone No. (800) 641-7591	3. Transport Trailer No. 448122			
4. Scheduled Date of Departure of Shipment: September 5, 1984	5. Estimated Date of Arrival of Shipment: September 7, 1984			

Certification is hereby made to the South Carolina Department of Health and Environmental Control that: (a) the shipper has provided the carrier with a copy of the shipment manifest, the certificate of compliance, and the routing instructions; (b) the shipment of radioactive waste has been properly placarded for transport according to applicable U.S. Department of Transportation Regulations; (c) all shipping papers originated or reproduced by the carrier have been properly executed; (d) the transport vehicle has been inspected according to applicable State and Federal regulations within the prescribed intervals and that all safety and operational components are in good working order and meet the requirements of regulations; (e) all drivers who will operate the vehicle within the State of South Carolina are qualified to transport hazardous materials as specified by applicable U.S. Department of Transportation regulations; (f) the Department shall be immediately notified of any variance, occurring after departure, from the shipper's notification of primary routes in South Carolina and estimated date of arrival; (g) all applicable laws and administrative rules and regulations, both State and Federal, regarding the transportation of radioactive wastes will be complied with.

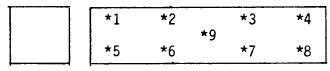
Date	September 5, 1984	0	-
_	Gene Lloyd	- ferre	Klery &
	or Printed Name and Title	Signature	I I

DHEC 803

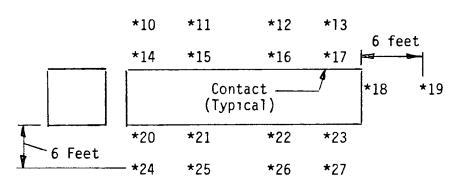
UMETCO MINERALS CORPORATION NIAGARA FALLS, NEW YORK

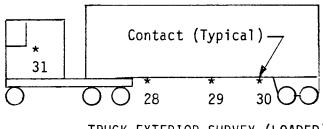
DATE 9-5-84
SHIPMENT NO. 615-3000

TRACTOR NO. 8163
TRAILER NO. 448122



TRUCK FLOOR SURVEY (UNLOADED)





TRUCK EXTERIOR SURVEY (LOADED)

NO.	007 .007 .008 .009 .007 .008 .008	<i>B</i> 50
1	.007	50
2	.007	
3	,008	
4	,009	50
5	.007	- 50 60 - - 60 70
6	.008	
7	.008	_
8	,009	60
9	_	70
10	.013	
11	. 0 13	
12	.016	
13	.015	
14	.016	
15	.013	
16	.020	
17	,020	
18	.015	
19	. 013	
20	.015	
21	-016	
22	.013	
23	.016	
24	.010	
25	,011	
26	,010	
27	, 013	
NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	.013 .016 .016 .015 .016 .013 .020 .015 .013 .015 .016 .016 .016 .016 .016 .016 .016 .016	
29	.010	
30	.032	
31	.005	

LEGEND:

* Location of Reading

 $\delta = mR/hr Ludlum Model 19 (S/N 22534)$

 $B = dpm/100 cm^2$ Ludlum Model 15 (S/N 28886) w/Ludlum Model 44-9 Probe (S/N 12708) - Eff. 42%

(Survey performed by)

Date 8-16-84

CONTAINER SURVEY						
BOX CONTROL	NO. UM 84	- 138	_B0X	CAULKED	YES	
BOX BANDED_	YES		_BOX	WEIGHT	5372	
		RADIATION	SUR	VEY (Total)		
CONTACT	.025	mR	/hr.			
3 FEET	.012	m R	/hr.			
INSTRUMENT_	Ludlum Model 19)	<u>.</u>			
SERIAL NUMBI	ER 22534					
	RAD	DIATION SUR	VEY	(Removable)		
SMEAR NO	A 295	15				
	○dpm	100cm ²	\propto			
	BKG dpm	ر 100cm ²	B			
INSTRUMENT_	NMC Model PC-55					
SERIAL NUMBE	ER 81-2712-05					

	Date 8-16-84					
CONTAINER SURVEY						
BOX CONTROL NO. UM 84-139 BOX CAULKED	YES					
BOX BANDED YES BOX WEIGHT	5040					
RADIATION SURVEY (Tot	tal)					
CONTACT .034 mR/hr.						
3 FEET . 015 mR/hr.						
INSTRUMENT Ludlum Model 19						
SERIAL NUMBER 22534						
RADIATION SURVEY (Removable) SMEAR NO A 29514						
dpm/100cm ² <						
BKG dpm/100cm ² B						
INSTRUMENT NMC Model PC-55						
SERIAL NUMBER 81-2712-05						

	Date 8-16-84
CONTAINER SURVEY	
BOX CONTROL NO. UM 84 - 141 BOX CAULKED	YES
BOX BANDED YES BOX WEIGHT	5554
RADIATION SURVEY (Tot	a1)
CONTACT .036 mR/hr.	
3 FEET . 013 mR/hr.	
INSTRUMENT Ludlum Model 19	
SERIAL NUMBER 22534	
RADIATION SURVEY (Removab	<u>le)</u>
SMEAR NO. A 29 407	
dpm/100cm ² ~	
BKG dpm/100cm ² B	
INSTRUMENT NMC Model PC-55	
SERIAL NUMBER 81-2712-05	

	Date	8-16-84
CONTAINER SURVEY		
BOX CONTROL NO. UM84-142 BOX CAULKED		PES .
BOX BANDED YES BOX WEIGHT	54	72
RADIATION SURVEY (Total	al)	
CONTACT . 024 mR/hr.		
3 FEET .013 mR/hr.		
INSTRUMENT Ludlum Model 19		
SERIAL NUMBER 22534		
RADIATION SURVEY (Removab	le)	
SMEAR NO. A 29408		
BKG dpm/100cm ² B		
INSTRUMENT NMC Model PC-55		•
SERIAL NUMBER 81-2712-05		

	Date 8-16-8 4					
CONTAINER SURVEY						
BOX CONTROL NO. UM 84 - 143 BOX CAULKED	YES					
BOX BANDED YES BOX WEIGHT	5266					
RADIATION SURVEY (Tot	al)					
CONTACT . 032 mR/hr.						
3 FEET . 013 mR/hr.						
INSTRUMENT Ludlum Model 19						
SERIAL NUMBER 22534						
RADIATION SURVEY (Removable smear no. $A - 29409$	ole <u>)</u>					
☐ dpm/100cm ² ✓						
BKG dpm/100cm ² B						
INSTRUMENT NMC Model PC-55						
SERIAL NUMBER 81-2712-05						

	Date8	3 - 23 -84			
CONTAINER SURVEY					
BOX CONTROL NO. UM 84 - 144 BOX CAULKED	YE	5			
BOX BANDED YES BOX WEIGHT	45	83			
RADIATION SURVEY (Tot	al)				
CONTACT .036 mR/hr.					
3 FEET . 014 mR/hr.					
INSTRUMENT Ludlum Model 19					
SERIAL NUMBER 22534					
RADIATION SURVEY (Removab	<u>le)</u>				
SMEAR NO. A - 29410					
dpm/100cm ²					
BKG dpm/100cm ² B					
INSTRUMENT NMC Model PC-55					
SERIAL NUMBER 81-2712-05					

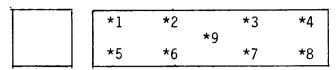
Date 8-23-84
CONTAINER SURVEY
BOX CONTROL NO. UM 84 - 145 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 5164
RADIATION SURVEY (Total)
CONTACT .032 mR/hr.
3 FEET . 0 15 mR/hr.
INSTRUMENT Ludlum Model 19
SERIAL NUMBER 22534
RADIATION SURVEY (Removable)
SMEAR NO. A - 29 4 12
dpm/100cm ² ✓
$B \ltimes G$ dpm/100cm ² B
INSTRUMENT NMC Model PC-55
SERIAL NUMBER 81-2712-05

Date 8 - 23-84					
CONTAINER SURVEY					
BOX CONTROL NO. UM 84 - 146 BOX CAULKED YES					
BOX BANDED YES BOX WEIGHT 4756					
RADIATION SURVEY (Total)					
CONTACT . 0 30 mR/hr.					
3 FEET . O 1 4 mR/hr.					
INSTRUMENT Ludlum Model 19					
SERIAL NUMBER 22534					
RADIATION SURVEY (Removable)					
SMEAR NO. A 29411					
$BKG dpm/100cm^2 B$					
INSTRUMENT NMC Model PC-55					
SERIAL NUMBER 81-2712-05					

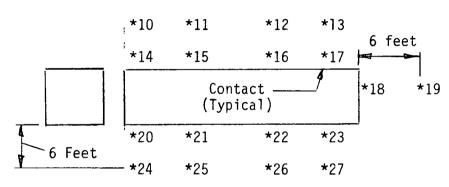
UMETCO MINERALS CORPORATION NIAGARA FALLS, NEW YORK

DATE 9-5-84
SHIPMENT NO. 615-3000

TRACTOR NO. 8163
TRAILER NO. 448122



TRUCK FLOOR SURVEY (UNLOADED)



* 31	С	ontact (Typical) –
0	00	* 28	* 29	30
	TRUCK	EXTERIOR	SURVEY	(LOADED)

NO.	7	₽
1	.007	<i>₽</i> 50
_2	.007	
3	,008	
4	,009	50
5	,007	60
6	007 .007 .008 .009 .007 .008 .008	50 60
7	.008	
8	,009	60
9	_	60 70
10	.013	
11	. 0 13	
12	.016	
13	.015	
14	.016	
15	,013	
16	.020	
17	,020	
18	,015	
19	.013	
20	.015	_
21	0.0	
22	.013	
23	.016	
24	.010	
25	.011	
26	,010	
27	,013	
28	,030	
29	.010	
NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	.032	
31	.013 .016 .015 .016 .013 .020 .020 .015 .013 .015 .016 .016 .016 .016 .016 .016 .016	

LEGEND:

* Location of Reading

す = mR/hr Ludlum Model 19 (S/N 22534)

 β = dpm/100 cm² Ludlum Model 15 (S/N 28886) w/Ludlum Model 44-9 Probe (S/N 12708) - Eff. 42%

(Survey performed by)

	•	20 St.	-				-1 -5			150		pr - + 4 - 4 - 4
(1) GENERATOR NAME <u>Umetco Minerals Corpo</u>		ASTF MA	NAGEN CLEAR SY	MENT I	ACILI	TY	(4)	Trı-	,			, ,
		(803) 25	9-1781							Joplin, M		
CITY Niagara Falls STATE		TIVE SHIPME	NT MANII	EST FOR	RM	•				1 SHIPPING DA		•
CONTACT G.E. Walck PHONE (716)2												1044 mR/h
(2) consigned to CHEM NUCLEAR SYSTEMS, INC							SHIPMEN	NT NO <u>61</u>	5-3007	LINER SERIAL	. NO	
P O BOX 726, OSBORN ROAD BARNWELL, S C 29812	(3) USE THIS NUMBER ON ALL CONTINUATION PAGES	0 <u>984</u> –21	LOCATION 3A	NO 	PAGE _ OF _		DRIVER S	SIGNATURI	Dieli	and Wil	DONDATE A	9-10-89
	S NAME & HAZARD CLASS	ID NUMBER	(6)		Si	HIPMENT	TOTALS					
NO OF WEIGHT PACKAGES (Pounds)	9 CFR 172 101)		VOLUME	TOTAL		ACT	TIVITY (10CFR				ISOTOPE	OTAL SNM GRAMS
Radioactive Material, empty packages Radioactive Material, fissile, n o s —Radio	active Material	UN2908	(Cubic Feet)	NO OF PACKAGES	ALI.	CJ CI TRITIUM	C 14	Tc 99	1129	SOURCE (Pounds)	U 233	N/A
8 39956 Radioactive Material, Institution and Sectivity, Radioactive Material, nos —Radioactive I	n o s —Radioactive Material	UN2918 UN2912	520	8	ISOTOPES		 		1129		U-235	
Radioactive Material, limited quantity, n o	s —Radioactive Material	UN2982 UN2910	(8)	L	.054	NP	NP	NP	NP	0.8	TOTAL	
Radioactive Material, special form, nos – Radioactive Material, instruments and arti	Radioactive Material cles—Radioactive Material	UN2974 UN2911	TOTAL	PALLET	37 / 4	,	,					-
Other (Specify) Contaminated Soil-			VOLUME		N/A		-					b
(9) WASTE DESCRIPTION Misc. Debris		Solid	, ,	(11)	NAME AND	FORM AND % OF CH	ND [†] IELĄTING /	AGENT(S)	<u>Metal</u>	0x1des		STE FORM CLASS A B C
(13) (XYes () No THIS VEHICLE IS CONSIGNED EXCLUSI ACCOMPLISHED BY CONSIGNOR OR CO	Ials are properly classified, described, package	d marked	Ma am	ow level rad terial Licer ended, and	ise No 097 the effective	iste nas be 7 as amer e Barnwell	en inspect ided, and l Site Dispo	ted in acco the Nucle sal Criteria	rdance with ar Regulato within 48 ho	the requireme	ents of South Ca n's License No	that this shipmen arolina Radioacti o 12 13536 01 ther certification d regulations "
Signature S. E. Willed.)/84		A	E. G	alck) 		
Company Umetco Minerals Corp.	Date 9/10/84		Titl	e and Orga	nization	Const	ruction	_Super	ıntende	nt - Umeto	 <u>:o_</u> Minera:	ls Corp.
					718 2							•
	<u> </u>	/ ×		4 E V	The second of th	socie de						
This material meets all license requirements												
This material was disposed of in accordance with lice	ense											
☐ Discrepancy							ere					
											of an In	المارية الماري
						-				The second of th		Charles (C. 1)
												and the second second
Date Authorized Signature	S S S S S S	EE .										
Authorized Signature	Title To The			1.00				in the same of	y very			

UCCNHT0002027

BARNWELL WASTE MANAGEMENT FACILITY Operated by CHEM-NUCLEAR SYSTEMS, INC

USE THIS NUMBER ON VOLUME ALLOCATION NO ALL CONTINUATION PAGES

UPHOU

HAGE

PAGE _2_ OF _2_

CONTINUATION SHEET

(16) ITEM NO	(17) RADIO NUCLIDE EACH CONTAINER	(18) PERCENT OF ACTIVITY EACH NUCLIDE	(19) ACTIVITY EACH CONTAINER (mCi)	(20) PHYSICAL FORM	(21) CHEMICAL FORM AND NAME & % OF CHELATING AGENT	(22) WASTE DESCRIPTION		(24) STABILITY CLASS (S. U		(26) SOURCE MATERIAL (pounds)	(27) DISPOSABLE CONTAINER WEIGHT (pounds)	(28) DISPOSABLE CONTAINER VOLUME (Cu Ft)	(29) CONTAINER TYPE	CONTAINER SURFACE SUMB/HR	LEVELS	C (DF	(31) ITAMINATION ONTAINER SURFACE PM/100cm2) a Beta Garnma	(32) DOT SUB TYPE (AJ A2 LSA etc)	(33) FISSILE CLASS	(34) LABELS/ MARKINGS USED
1/17	11-238	NI/A	0028	5711A			Δί		N/A	0.1	4660	<u> </u>	STC ,	035	016	MDA	/MDA	T.S.A.	N1 / A	Radioactive— T C A
ļ	TH-333		<u></u>				 											 		Radioactive—
148	11-538		ÚUJB				!	1	1	0.1	5176	-65	STC	1036	.016	(MDV	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	TCA	NT / A	Radioactive— T C A
	T11-232	!	004												_		 	ļ		Radioactive-
1/0	11-238		0028							0.1	511/	65	STC	1032.	.014	MDA	/ MODA	LSA	NT / A	Radioactive-TCA
	TI-222		004					•								ļ	 	<u> </u>		Radioactive—
150	11 228		0038			H				Λ 1	1702	65	STC	.03/	015	MDA	/ MT) A	TCA	NI/A	Radioactive— T.C.A
	mii 333		0020			01 E		Ĭ						1.0						Radioactive—
151	77 720	į	0028	()	ES	S BI RE		1		Λ 1	513/	6 E	CTPCT	0.30	015	MADA	/ 3/00 A	T C'A	TAT / A	Radioactive— T.C.A.
	רבר נוידי		00/	{ 5	11	WE		1		0.1	-3 23,		010	.000			1 44044	120711	20122	Radioactive—
159	77 220	1	0000	5)	õ	A.T.				Λ 1	1006	- 65	'oma	026	01/	M 4	2 200 A	TCA	A7 / A	Radioactive
775	ט ביי נזייף		00/	(7)	<u>,,,</u>	II NC HA				V1.2	7000	- 53	010	.050			1 2 2 2 2 2	11011	11/41	Radioactive—
-	11 720		0020	₹ ° ``	T	Ar DII T		1		Λ 1	E20/	65	Om a	025	01/	10CD A	() A	LSA	AT / A	Radioactive— +
	10 1000 10 1000	i	004	13	7	ALLA		i		V.1	3204	65	STC	.000		111/12	111/12	Don	71/27	Radioactive—
	TT 220		0020			0 H H	T i	1		A 1	E000	7.5	ama	0/0	016	1200	Limia	704	NT / A	Radioactive—
	mm 222	i	.0028							- U. L	5000	105	310	.040	010	THE STATE OF THE S	1111/1	HUAL	1/63	Radioactive—
	111 254	¥	.004	\ \		1	- ``													Radioactive—
	 					·						 					!		1	Radioactive—
						 				 -		 -		<u> </u>				` `		Radioactive—
		-						-								· · ·	· · · · · ·			Radioactive—
<u> </u>									†			 		 		†	!			Radioactive—
				 				-	 						,	1	 	<u> </u>	<u> </u>	Radioactive—
						· · · · · · · · · · · · · · · · · · ·	_									T		,	1	Radioactive—'
<u> </u>																				Radioactive—
<u> </u>				 					 	 	1	<u> </u>				†	!			Radioactive—
	·						_	 	 			<u> </u>	-	 	 	 	+	T		Radioactive—
		,	-	 			+	 	 			 					+			Radioactive—
	;	<u>'</u>	····		-	9		 		 	 			1		 	 	1	 	Radioactive—
<u> </u>				-				 			 		-			 	 	†	 	Radioactive—
<u> </u>				 					+	 	 	1	-	 	 	†	 	+	<u> </u>	Radioactive—
	 			-	<u> </u>	PAGE TOTALS			+		39956	 	 			+	<u> </u>	1	L	madioactive—

Form No CNS 201 (9-83)

(I) GENERATOR NAME **Umerco limerals Corporation** ADDRESS 137 - 47th Street**	BARNWELL WASTE MANAGEMENT Operated by CHEM-NUCLEAR SYSTEMS, P O Box 726, Barnwell, South Carolina 29 (803) 259-1781 RADIOACTIVE SHIPMENT MANIFEST FO	, INC 29812 CARRIER Tri- State ADDRESS Juplin, Missouri 04801 TELEPHONE SHIPPING DATE
CITY Niagara Falls STATE New York		SHIPMENT TYPE SHIPMENT SURFACE EXPOSURE DAA_mR/hR SHIPMENT NO
	HIS NUMBER ON VOLUME ALLOCATION NO ITINUATION PAGES 0984-213A	PAGE DRIVER SIGNATURE Real and 11 11 DATE 9-11-94
(5) TOTAL FOR EACH CLASS NO OF PACKAGES (Pounds) Radioactive Material, empty packages Radioactive Material, fissile, n o s —Radioactive Material	SS , ID NUMBER (6) VOLUME (Cubic Feet)	F Curies Unincuries (Pounds) U-233
Radioactive Material, fissile, n o s — Radioactive Material Radioactive Material, low specific activity, n o s — Radioactive Material Radioactive Material, n o s — Radioactive Material Radioactive Material, limited quantity, n o s — Radioactive Material	Material UN2912 UN2982 520 8 rial UN2910 UN2910 (8)	0.54 NP NP NP NP NP TOTAL V
Radioactive Material, special form, n o s —Radioactive Material Radioactive Material, instruments and articles—Radioactive Material Other (Specify)	UN2974 TOTAL PALLET	T) N/A (12) WASTE FORM CLASS
(13) () Yes () No THIS VEHICLE IS CONSIGNED EXCLUSIVE USE LOADING A ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DOWN AND AND A ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DOWN AND ADDRESS OF THE ACCOMPLISHED BY CONSIGNEE OR HIS DOWN AND ADDRESS OF THE ACCOMPLISHED BY CONSIGNED EXCLUSIVE USE LOADING AND ACCOMPLISHED BY CONSIGNED AND ACCOMPLISHED AND ACCOMPLISHED BY CONSIGNED AND ACCOMPLISHED BY CONSIGNED AND ACCOMPLISHED BY CONSIGNED AND ACCOMPLISHED AND ACCOMPLISHED AND ACCOMPLISHED AND ACCOMPLISHED AND ACCOMPLISHED AND ACCOMPLISHED AND	of low-level of Material Lic amended, an made that the made that the made of the Department of the Date	NAME AND % OF CHELATING AGENT(S) Name and the South Carolina Department of Health and Environmental Control that this shipment radioactive waste has been inspected in accordance with the requirements of South Carolina Radioactive cense No 097 as amended, and the Nuclear Regulatory Commission's License No 12 13536 01 as and the effective Barnwell Site Disposal Criteria within 48 hours prior to shipment, and further certification is the inspection revealed no items of non compliance with all applicable laws, rules and regulations. No (71) 770-3351 No (71)
☐ This material meets all license requirements	CNSI USE ONLY / /	
☐ This material was disposed of in accordance with license ☐ Discrepancy	TRIPLICATE COPY	Arrival Date
	Form No CNS-201 (9-83)	Trench No Location Code
Date Title	SEE INSTRUCTIONS ON REVERSE SIDE FOR FILLING OUT THIS FORM	Personnel Exposure

UCCNHT0002029

Form RHA.-CT (5/80)

SCUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL Radioactive Waste Shipment Certification Form

General Instructions and Information: This is a two part form to be used by shippers and carriers of radioactive waste. The certifications contained herein satisfy the requirements of Section 13-7-150, of Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act. This certification along with a copy of the prior notification form shall accompany each shipment of radioactive waste into and within the State of South Carolina. The shipper is to complete his portion of the form and present it to the carrier as part of the shipping documents. Upon receipt, the carrier shall complete his portion of the form. Upon delivery of the shipment to the consignee, a copy of this certification form, and a copy of the Prior Notification and Manifest form with the consignee acknowledgement, shall be returned to the Department.

the Department.	
Part I:	Shipper's Certificate of Compliance
1. Name of Shipper and Address:	2. Shipment Identification No.
Umetco Minerals Corporation	0984-213A
137 - 47th Street Niagara Falls, NY 14302	3. Transport Permit No. 0211-31-84-X
Telephone No. (716) 278-3361	The management at long and

In compliance with Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act, I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the above-named shipper has complied with all provisions of Act No. 499 of 1980, and all applicable laws and administrative rules and regulations, both State and Federal, regarding the packaging, transportation, storage, disposal and delivery of such wastes. I further certify that this shipment of radioactive waste has been inspected within 48 hours of the time of departure and that no items of non-compliance with applicable laws, rules or regulations were found.

Date____September 10, 1984

G. E. Walck, Construction Superintendent Typed Name and Title of Agent of Shipper

f Shipper Signature

Part II: Carrie	r's Certification
1. Name of Carrier and Address: Tri-State Motor Transit Company	2. Shipment Identification No. 0984-213Å
P. O. Box 113 Joplin, Missouri 64801 Telephone No. (800) 641-7591	3. Transport Trailer No. 448122
4. Scheduled Date of Departure of Shipment: September 10, 1984	5. Estimated Date of Arrival of Shipment September 13, 1984

Certification is hereby made to the South Carolina Department of Health and Environmental Control that: (a) the shipper has provided the carrier with a copy of the shipment manifest, the certificate of compliance, and the routing instructions; (b) the shipment of radioactive waste has been properly placarded for transport according to applicable U.S. Department of Transportation Regulations; (c) all shipping papers originated or reproduced by the carrier have been properly executed; (d) the transport vehicle has been inspected according to applicable State and Federal regulations within the prescribed intervals and that all safety and operational components are in good working order and meet the requirements of regulations; (e) all drivers who will operate the vehicle within the State of South Carolina are qualified to transport hazardous materials as specified by applicable U.S. Department of Transportation regulations; (f) the Department shall be immediately notified of any variance, occurring after departure, from the shipper's notification of primary routes in South Carolina and estimated date of arrival; (g) all applicable laws and administrative rules and regulations, both State and Federal, regarding the transportation of radioactive wastes will be complied with.

Date September 10, 1984

Charle William

Typed or Printed Name and Title

Sychan Wilson

DHEC 803

THIS MEMORANDUM is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading nor a copy or duplicate covering the property named herein and is intended solely for filling or record

Carrier s No 657968

Tri-State Motor Transit Company

RECEIVED, subject to the classifications and tarlifs in effect on the date of the issue of this Bill of Lading,

AT xMariettaxOhior

Sept. 10 ,19 84 From UNION CARBIDE CORPORATION WETALS DIVISION UNION CARBIDE CORPORATION

Niagara Falls, NY For use via carrier truck under the exclusive/sole use shipments/movements

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as indicated below, which said carrier (the word carrier being understood through out this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official Southern, Western and Illinois Freight Classifications in effect on the date hereof if this is a rail or a rail water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading including those on the back thereof, set forth in the classification or tariff which deverges the transportation of this shipmer, and the shipper and accented for himself and his assigns.

Consigned	CHEM NUCLEAR SYSTEMS, I			SHIPPER S O	RDER NO	CUSTO	DMERS ORDER NO
_							
Destination_	MHWWW Barnwell (Osborn Road)	State Colorado(S.	Carolina	County	iide Osc	Barnwell
Route	- 10 11 11 11 11 11 11 11						100510
Delivering C	Carrier Tri-State Motor Transit	Car or	313	No	44042		al 226509
No Packages	Kind of Package, Description of Articles, Special marks, and Exceptions	*Weight (Sub-to- correction)	† Class Rad		shipment	is to b	on 7 of Conditions of lading if this e delivered to the recourse on the
8	Radioactive Materials LSA nos (520 cu. ft.)				the follow	ing staten	
	RadioactivezMaterial r.U.N=29/12				ery of t	his shipi	ll not make deliv ment without pay nd all other lawful
	XUINAUTAKX				charges	neight u	nd an other lawren
	xbranium/Thorium Residuess(From Chemical Brocessing)				(S	ignature o	of consignor)
	YOYOMGAMAX YOUTHES LIPETX PACKAGEX Less than one	(1) pound s	ourc	e] 		
	material - solid, metal oxide, contam	inated soil			or stamp	Paz	o ther prepaid Xwrite Prepaid XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	building rubble, wood and plant equip				PREPA		(See Below
		_			Received	•	
	This is to certify that the above named materials are prope marked and labeled and are in proper condition for transportations of the Department of Transportation	rly classified, des ortation accordin	cribed g to the	packaged applicable	to apply on the pro	n prepay: operty des	ment of the charges cribed hereon
	Signed Signed	Kalek				Agent or	Cashier
		,			Per		
	Vehicle assigned for sole use of consignor. Do not load of	ther freight on the	 he veh	icle do not	(The only the a		here acknowledges epaid)
	transfer in route and do not break the seal on truck			_		Charges	advanced
					s		
	Carrier hereby acknowledges that prior to or at the tir transportation the shipper provided or affixed according required placards or orange panels (including prescribed hazardous material named hereon	ng to applicable identification in	e regul umber	ations, the s) for each	Correct we Subject to *L.G.	ight is verification Eva I	on by the
	Signed Kirlian	1/1/12	212	7	P.O.	Box 9	97
					Niagg	ra Fa	alls, NY 143
			<u></u>				
The agreed or o	declared value of the property is hereby specifically stated by the shipper to be not exceed	ding			per		
	METALS DIVISION UMETCO MINERALS UNIÓN CARBIDE CORPORATION UMETCO MINERALS Shipper	S CORPORATIO	NC				Agent
Per Permanent postó address of shippi UC 326-34	A. E. Walck	Per					<u>. </u>

Union Carbide Corporation

LINDE DIVISION • GAS PRODUCTS COMPLEX
4501 ROYAL AVENUE NIAGARA FALLS, N.Y. 14303
WEIGHT TICKET

1313

08:16°09/10/24 0000 0000 22 2 22 CBGSS 28640**

Union Carbide Corporation

LINDE DIVISION • GAS PRODUCTS COMPLEX
4501 ROYAL AVENUE NIAGARA FALLS, N.Y. 14303

WEIGHT TICKET

1313

11:44A09/10/84 0010 1919 22 2 22 SCALE 1 109000 SCALE 2 3370005 SCALE 3 250200 GROSS 0690200

_	
JCCNH1	
Г000203	

ADDRESS P O Box 7 RADIOAC CITY Niagara Falls STATE New York CONTACT G E Walck PHONE (716)278-3361 (2) consigned to CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC (3) USE THIS NUMBER ON CHEM NUCLEAR SYSTEMS INC	by CHEM NUCL 26, Barnwell, S (803) 259 TIVE SHIPMEN	EAR SYSTEMS, outh Carolina 2 1781 T MANIFEST FC	INC 9812 PAGE _1	TELEPHONE 417-624-3133 SHIPMENT TYPE Van SHIP SHIPMENT NO 615-3007	DOPLIN, MISSOURI 64801 I SHIPPING DATE 9/10/84 PMENT SURFACE EXPOSURE 044 mR/hR LINER SERIAL NO
P O BOX 726 OSBORN ROAD BARNWELL S C 29812	0984-213/	<u> </u>	OF _2		
(5) TOTAL FOR PROPER SHIPPING NAME & HAZARD CLASS FACH CLASS 100 UP PACKAGES (Pannets) Radioactive Material, empty packages Radioactive Material, lissile, n o s — Radioactive Material 8 39956 Radioactive Material, lissile, n o s — Radioactive Material Radioactive Material, n o s — Radioactive Material Radioactive Material, n o s — Radioactive Material	UN2908 UN2918 UN2912 UN2912 UN2982	VOLSIME TOTAL (Cubic Package 1520 8	(1)	TOTALS	(7) TOTAL SNM ISOTOPE GRAMS U 233 N/A U 235 0 8 TOTAL
Radioactive Material, Jurilled quantity, n.o.s.—Radioactive Material Radioactive Material, special form, n.o.s.—Radioactive Material Radioactive Material, instruments and articles—Radioactive Material Other (Specily) Contaminated Soil (io) PHYSICAL FORM/ Governments Governments (io) PHYSICAL FORM/ Governments (UN2910 UN2974 UN2911) N/A CHEMICAL FORM NAME AND % OF		(12) WASTE FORM CLASS Oxides XXXA 🗆 B 🗀 C
(13) (X) Yes () No THIS VEHICLE IS CONSIGNED EXCLUSIVE USE LOADING AND UNLOADING MUST E ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT (14) IMPORTANT This is to certify that the above named materials are properly classified described package and labeled and are in proper condition for transportation according to the applicable regulations of the De Transportation Signature	ged marked partment of	of low level Material Lic amended a made that t	radioactive waste has bense. No. 097 as am and the effective Barriv the inspection reveale 10/84 By	been inspected in accordance with nended, and the Nuclear Regulational Site Disposal Criteria within 48 hid no items of non-compliance with	th and Environmental Control that this shipment hithe requirements of South Carolina Radioactive ory Commission's License No. 12 13536-01 as iours prior to shipment and further certification is in all applicable laws
Company Umetco Minerals Corp Date 9/10/8		Title and O	rganization <u>Con</u> :	<u>struction Superintende</u>	ent - Umetco Minerals Corp
	CNSI USE		No (718 278=3	361	
☐ This material meets all license requirements					
☐ This material was disposed of in accordance with license	OTCDOCAL C	LEE CODY	Arrival Date	A	rrival Survey No
☐ Discrepancy	DISPOSAL S	HE COPY	Date/Time Buried	н	P Initial
	Form No CN (9-83				ocation Code
Date	SEE INSTRUCTIONS OF FOR FILLING OUT			. Pi	ersonnel Exposure
Authorized Signature Title					

Attn: Sybil Horton - Volume Allocation No. 0984-213A

UCCNHT0002035

BARNWELL WASTE MANAGEMENT FACILITY Operated by CHEM NUCLEAR SYSTEMS, INC

Umetco Minerals Corp

GENERATOR NAME.

USE THIS NUMBER ON VOLUME ALLOCATION NO ALL CONTINUATION PAGES

PACE 2 or 2

CONTINUATION SHEET

(16) FILM NO	(17) RADRO NUCCIDI EACH CONTAINER	(18) PERCENT OF ACTIVITY EACH NUCLIDE	(19) ACTIVEY FACH CONTAINER (InCi)	(20) PHYSICA. FORM	CHITATES APEN	(22) WASH DESCRIPTION	(23) WASTE FORM CLASS	(25) 1.1 A[4] 11 C. ASS 13	(2.5 r 55 F CIAI tii; NCCTT AR MATLRIAL (grains)	(26) SO: RCF MATERIAL (pounds)	(27) DISEONARES, CONTAINER WEIGHT (pounds)	(28) Olsy OSABIL CONTAINER VOLUME (Cu Ft)	1293 CONTAMER JAYI	CADRATION CONTAINER SUBFACE MORENHAMER DERZOR	LEVELS	101	CST) FAMIDAT (15) FITAIDER SUPPEACE MZ100cm2) Beta Cimino	(32) 1) () 1 SUB 1YPE (A1 A2 LSA etc.)	(33) FISSILE OLASS	(34) LAGELSZ MARKINGS USEO
155	U-238	N/A	0028	Solid	-		A	U	N/A	0 1	5240	65	STC	034	016	MDA	〈 MDA	LSA	N/A	Richodi five— LSA
756	TH-232		004				+		+ +-		<u> </u>	ļ			0.7.5			 		Radio ictive—
1.56	U-238		0028			<u></u>	+			0.1	4225	65_	_STC_	-038	015	MUA ;		I.SA	N/A	Radioactive— LSA
157	TH-232		004		-		++			0 1	4876	65	STC	035	016	I I	. 303.4	100	N7 / A	Radio scieve—
157	U-238	ļ ļ <u>-</u>	0028	-	8	m ~	++	i-		U J.	48/6	63	SIC	035	016	MIDA	< MDA	LSA_	N/A	Radioactive LSA
150	TH-232	ļļ	004		<u> </u>	(UB)	++	 -		0 1	1.600			0.26	016	1	4 141 1	1.01	27./4	Radio schwe -
158	U-238		0028			RD RI		-		0 1	4680	65	STC	036	016	MDA	< MDA	LSA	N/A	Radioactive LSA
1.50	ГН-232		004			HAJ HAJ	┿╌┾	-			1000			006	07.4	 i				Radioactive—
159	U-238	 	0028		<u></u> <u>-</u>	NTAN LLDII ANT		-	i	0.1	4368	65	STC	026	014	MDA	\MDA	LSA	N/A_	Radioactive LSA
	TH-232		004		ME3	TA II ON	++	 	+									 		Radioactive—
160	U-238	 	0028		Σ	23 14		-		0.1	5016	65	STC	.038	.016	ACIM	< MDA	LSA	N/A	Radioactive— LSA
	TH-232	~	004	\			- J	L- -								i		 	 	Radioactive-
		ļ						<u> </u>												Radioactive—
										-						i			ļ	Radioactive—
								<u> </u>		 				ļ	-	i		-	 	Radioactivi.—
ļ										<u> </u>			ļ	ļ	<u></u>	i		ļ		Radioactive—
								ļ <u> </u>								li				Radioactivi
							\perp			<u> </u>						li			ļ	Radioactivi.—
															ļ	li		ļ		Radioactive—
							<u> </u>									ļi		ļ		Radioactive
																<u></u> i				Radioactive —
L		<u>.</u>																ļ		Radioactive –
															<u> </u>			ļ		R schoactive —
								<u></u>	<u> </u>											Radioactive—
								L		1	<u> </u>	ļ								Radioactive—
												<u> </u>		<u> </u>	L		· 			Radioactive
																		<u> </u>	L	Radioactivé
				•														1		Radioactive
																				Radioactive
			 				Ì		-											Radioactivi,
		+			•	PAGE TOTALS				0.6	28405	390								

Form No CNS 201 (9-83)

DISPOSAL SITE COPY

Attn. Sybil Horton - Volume Allocation No. 0984-214A

GENERATOR NAME Umetco Minerals Corp

BARNWELL WASTE MANAGEMENT FACILITY Operated by CHEM NUCLEAR SYSTEMS, INC

USE THIS NUMBER ON VOLUME ALLOCATION NO ALL CONTINUATION PAGES

PAGE 2 or 2

CONTINUATION SHEET

(Ita (IEM NO	(17) RADIÚ NUGLIDE EACH CONTAINER	(18) PERCENT OF ACTIVITY EACH NUCLIDE	(14) ACTIVITY EACH CONTAINER (mCi)	(20) PHYSICAL FORM	CHEMBAL CHEMBAL ORMAND NAMES OF CHEMING AGENT	(77) WASTE DESCRIPTION	(23) WASTE FORM CLASS	(*1); STARILIT CLASS (\$)	(25) SPECIA: OI NUCLEAR MATERIAL (grams)	(.ºb) SQLIR: F MATERIAL (pounds)	(27) DISPOSABLE CONTAINER WEIGHT (pounds)	(28) DISPOSABLE CONTAINER VOLUME (Cu. Ft.)	(29) CONTAINER TYPE	RADIATION COLLAINER, SURFACE X mRZHR D RZHR	LEVELS	(.) 9 (0P)	(31) CAMINATION DELARITE BURLACE MATOREMAT BULL COMMIN	(.32) D O T SUB TYPE (A1 A2 ESA etc.)	(++) FISSILF CLASS	(34) LABELS/ MARKINGS USED
155	U-238 TH-232	N/A	0028 004	Solid			A	U	N/A	0 1.	5240	65	STC	.034	016	MDA	∠ MDA	LSA	N/A_	Radioactive— LSA Radioactive—
156	U-238		0028				+ +-			0.1	4225	65	STC	.038	015	MDA	< MDA	LSA	N/A	Radio scrive — L.S.A
-130	TH-232		.004				 -	 	+		4.24.		3.1		17.11.	4				Radioactive:—
157	U-238		0028			S S S S S S S S S S S S S S S S S S S	+-	 		0 1	4876	65	STC	035	016	MDA	< MDA	LSA	N/A	Radioactive LSA
137	TII-232		0028			A B B B	+-+	 			4070	- 45	510	0.55	0.0	111721		13 711	.,,,.,	Radioactive—
158	U-238		0028			ATED RUB: RDWA:	+-+			0.1	4680	65	STC	036	.016	MDA	< MDA	LSA	N/A	Radioactive— LSA
130	TH-232		0028		8 1	I NA HAR	+			· · · ·	4000		310		.0.1.0	111011	11,021	12011	- 11/ 11	Radioactive—
159	U-238		0028		H	 		 	+ +-	0.1	4368	65	STC	026	.014	MDA	< MDA	LSA	N/A	Radioactive— LSA
139	TH-232		0028			NTAM ILDII ANT I		 	· 	0	4300		310	<u> </u>	.014	111011	VIIDA	עַטָּגוּ	11/13	Radio a livi.—
160	U-238		0028		<u> </u>	L P L CON		 - - - - - - - - -	+	0.1	5016	65	STC	.038	016	MDA :	< MDA	LSA	N/A	Radio active — LSA
100	TH-232	V	.004			Ö-M-N			+	U.1	30.10		3.10		- V.LV	LIIVA .	TIDA	14DEX	117.63	Redinactive —
	J.H-232		.004			· · · · · · · · · · · · · · · · · · ·				 					<u> </u>	1			·	Radio schve—
								 		 	 				· · · · ·	-				Radioast-ve—
								 						-				·····		Radio igtive
					 					· -								·	 	Radio ettivi.—
					i											! !		 	:	Rad dactive—
		 	 							 	!			1	!			· · · · ·		- Radinactivi —
	ļ		 				 	 	+	<u> </u>	 		·	i	i	i		† · · · ·		Radioactive—
			 					l							 					Radioactive—
	·	 	_					 		 			-			t				Ragioactive—
				<u> </u>		····		 -	+	 			 					<u> </u>		Radioactive—
				 				 	-	 			 	-		<u> </u>		<u> </u>		Radioactive—
			!		 		+				 		!		† · · ·					Radioactive—
							+	 		<u> </u>	i		 					†		Radioactive
		 	 	 -	 		+	 	 		 		 	 	-			1	 	Radioactive—
	 	<u> </u>		-	 					+		-		<u> </u>		1		1 -		Radioactive -
			 					 -		+			 		 	†·		<u> </u>		Radioactive—
	 		 		 			 		+	 				 	 		†	1	Radioactive—
		-	<u> </u>				+			 	 		1	 	†			-		R idigactive—
	+	L			L	PAGE TOTALS		J		100	28405	390	†		<u> </u>			<u> </u>		

Form No CNS 201 (9-83)

DISPOSAL SITE COPY

GENERATOR NAME UMEICO MINERALS CORPORATION

BARNWELL WASTE MANAGEMENT FACILITY Operated by CHEM NUCLEAR SYSTEMS, INC

USE THIS NUMBER ON VOLUME ALLOCATION NO ALL CONTINUATION PAGES

CONTINUATION SHEET

(16) ITEM NO	(17) RADID NOCLIDE EACH CONTAINER	(18) PERCENT OF ACTIVITY EACH NUCLIDE	(19) (20) A: HVEY PHYCCA. LACH FORM CONTAINER (INCO)	CM) CHIMICAL CHIMICAL DIAMEN OF DIAMEN OF ATENT	(22) WASH OF SORPHON	(23) WASEE TORM CLASS	(95) STABLER GLASSES I	(25) SPECIAL PINUGELAR MATERIAL (REURS)	(26) SCHRCF MATERIAL (pouras)	(27) DISPOSABLE CONTAINER WEIGHT (pounds)	(28) DISPOSABLE CONTAINER VOLUME (Co. Fr.)	TYPL :	CONTAINED	LEVILIS	(0)	CH) AMBLATION OFFACE SURFACE METROPHER (BITS CONTROL	(32) ():5 () SUR TYPE (A1 A2 (SA etc.)	(33) FISSIJE CLASS	(34) LABELS/ MARKINUS USED
147	U-238	N/A	0028 Solid			A	<u>U</u>	N/A	0 1	4660	65	STC	035	01.6	MDA	. < MDA	LSA	N/A	Radioactive— LSA
	TH-232 U-238		.0028	 		+		++-	0.1	5176	65	STC	.036	016	/ MD A	AZMDA .	LSA	N/A	:Radioactive= LSA
T40	TH-232		.0028	t - i		++				J170	<u></u>	510	.030	.00	A. -1.116€	1 2 - 11724		117.41	i Sadioact ve-
1/0	U-238		.0028	 				+ + -	0 1	: 5114	65	STC	.032	014	MILA	\ MDA	LSA	N/A	Radionetwe- LSA
	TH-232		0028			++		 -	<u></u>	7119	<u> </u>		.0.72		umur	,		117.21	Radioactive—
	U-238		0028	 		++-			0.1	4702	_65	STC	034	.0154	МПА	/ MDA	LSA	N/A	Radioactive LSA
	TH-232		.004	<u> </u>	— н			-		. 			.0.74		110/11	- C 1111			Racioactive-
151	11-238		.0028	E S	TED SOI RUBBILE DWARE				0.1	5134	.65	STC	.038	015	MDΔ	∠ MDA	LSA	N/A	Radicactive— L.S.A.
	TH-232		.0020	B	0.53								i			ļ \\	1 "17"		Radioactive—
152	U-238		.0028	ő	< : :x			7	0.1	4886	65	STC	.036	014	l IMIDα	. ⟨ MDA	LSA	N/A	Redinactive— L.S.A
	TH-232		.004	•	N O Y					4.000	17.3	;			 	, , , , , , , , , , , , , , , , , , ,	***************************************		Radioactive -
153	U-238		.0028	TAL	<u> </u>			:	_0.1_	5284	65	STC	035	01/4	MDA	. (MDA	I.S.A	N/A	Rad-pactive L.S.A.
1.1.1	TH-232		.004	Ψ	AN						:								Radioactive-
15/	11-238		.0028		C D L				0.1	5000	6.5	STC	040	016	(MDA	∠ MDA	J.SA	N/A	Radioactive- [SA
	TH-232	—	004	!		7	\rightarrow												Radicactive
	111-131			T .			•	T											Radioactive—
	i															1			Ratioactive
						!			i							1			Hadroactive
					•														Radioactive—
					·														Radioactivi
_			i]] 	j		Radioactive—
										,	1								Radicactive—
										İ						1			Radioactive-
								Ţ <u>.</u>											Radioactive
								:											Racioautive—
															[Ranieactive—
						•									!				Radicactive —
								1				i		<u> </u>		1			Radicactive—
													i						Hadioachve—
	:				PAGE TOTALS				0.8	39956	520								

Form No CNS 201 (9-83)

DISPOSAL SITE COPY

Attn. Sybil Horton

Form RHA-PNC (5/80)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTRL Radioactive Waste Shipment Prior Notification and Manifest Form

Se	e Reverse Side	for Instructions						
1 Name and Address of Shipper		2 Porcon Res	sponsible for Radioactive					
Umetco Minerals Corpor	ation	Waste Ship	G.E. Walck					
137 47th Street	_	(b) Title	Construction Superinten					
Niagara Falls, NY 1430	2	(c) Teleph	none No (716)278-3361					
3. Radioactive Waste Transport	Permit No.	4. Shipment	Identification No.					
0211-31-84-X		0984-	213A					
5. Location from which waste wi	ll be shipped	6 Name and 1	Address of Consignee					
Same as (1) above		Chem-Nu	clear Systems, Inc.					
		P.O. Bo	1 South Carolina 29812					
7. Scheduled Date of Departure	of Shipment	8. Estimated	1. South Carolina 29812 Date of Arrival of Shipment					
		September 13, 1984						
September 10, 1984	10 Type of 1	ransport Vehicle	11. Trailer No and Owner					
Tri-State Motor Transit	Closed		(if available)					
	1							
12. Routes shipment will follow	in State of Sou	ith Carolina (Be S	pecific)					
T 60 T 26 NG 221 C	0 2 - 1 0	0 61						
I-20, I-26, US-321, S	.c. 3 and S.	C. 64						
13 Type Container or Cask	Manifest 14 Contain		15. Total No. of Containers					
		-	8 ent Radionuclides um (Nat.) .0028					
Wood Boxes		73.392 (c)						
16 Waste Description, Physical Chemical Form Contamina	and ted Sorl							
Metal Oxides, Bldg. Rub		1	m (Nat.) .004					
and Plant Hardware		<u> </u>	20. Total Cubic Feet					
18 Total Curies (mC1)	19 Transpor							
.054	III		520					
	ed quantities adioactive	Normal Form [] Type A quantity [] Type B quantity [] Large quantity	[] Type B quantity [] Class II					
	CERTIF	ICATION						
I hereby certify on behalf of t and Environmental Control that best of my knowledge, and that Act No 499 of 1980, the South Date	the information	complied with all	The broatstons as rederror -1					
G.E. Walck - Construct	ion Sunt	15G	alek					
Typed Name and Title of Agent of	of Shipper	Signature (G.E. Walck)					
Typed name and Trace of tigens		`	or marchy					
	CONSTRUE AC	KNOWLEDGEMENT						
This acknowledges to the Southe above-described radioact	ith Carolina Der tive waste shipm	eartment of Health ment was received.	and Environmental Control that					
Date of Delivery		Signature o	f Consignee or authorized					
		Typed or Pr	inted Name and Title					

DHEC 802

Original. S. Carolina

Copy: Chem- Nuclear

Form RHA-PNC (5/80)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTRL Radioactive Waste Shipment Prior Notification and Manifest Form

			for Instructions							
	1. Name and Address of Shipper Umetco Minerals Corpora	t i Ön	2. Person Res	sponsible for Radioactive oment G.E. Walck						
	137 47th Street	21011	(a) Name	G.E. Walck						
	Niagara Falls, NY 14302		(b) Title Construction Superint							
			(c) Telephone No. (716)278-3361 4 Shipment Identification No.							
	3 Radioactive Waste Transport Pe	IMIT NO	-							
	0211-31-84-X		6 Name and Address of Consignee							
	5. Location from which waste will	be shipped								
	Same as (1) above		P.O. Bo	clear Systems, Inc. × 726						
	* **		Barnwel	1. South Carolina 29812						
	7. Scheduled Date of Departure of	Shipment	8. Estimated	Date of Arrival of Shipment						
	September 10, 1984		Sontamb	er 13, 1984						
	9 Carrier	10 Type of T	Transport Vehicle	11. Trailer No and Owner						
	Tri-State Motor Transit	Closed		(if available)						
		1		1						
	12. Routes shipment will follow	n State of Sou	ith Carolina (Be S)	pecific)						
	T 60 T 06 NO 221 0		0 (1							
	I-20, I-26, US-321, S.	c. 3 and S.	C. 64							
	Coals	Manifest 14 Contair		15 Total No. of Containers						
	13 Type Container or Cask	1								
	Wood Boxes		73.392 (c)	8						
	16 Waste Description, Physical	and		t Radionuclides						
	Chemical Form Contaminat			m (Nat.) .0028						
	Metal Oxides, Bldg. Rubb and Plant Hardware	Le, Wood	Thoriu	m (Nat.) .004						
	10 motal Curies	19 Transpor	rt Group	20 Total Cubic Feet						
	.054 (mC1)	111		520						
	21 Waste Classification	<u> </u>								
1.2	ki Radioactive LSA [] Bulk L	5A	Normal Form	Special Form Fissile						
1	[] Radioactive LSA [] Limited	i quantities	[] Type A quantity	[] Type A quantity [] Class I [] Type B quantity [] Class II						
	gicuter enan		[] Type B quantity [] Large quantity	(1 01 TTT						
	Type A quantities device	5	[] Large quantity	() Zurgo damen ()						
		CERTIF	ICATION							
				1) Complete Department of Health						
	I hereby certify on behalf of th	e above-named	shipper to the Sou	orth Carolina Department of Health						
	and Environmental Control that t	e above-named he information	shipper to the Sou provided herein i	the provisions as required by						
	and Environmental Control that t	e above-named he information	shipper to the Sou provided herein i	the provisions as required by						
		e above-named he information	shipper to the Sou provided herein i	the provisions as required by						
	and Environmental Control that t	e above-named he information	shipper to the Sou provided herein i	the provisions as required by						
	and Environmental Control that t best of my knowledge, and that t Act No. 499 of 1980, the South C	e above-named he information	shipper to the Sou provided herein i	the provisions as required by						
	and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Construction of the Const	e above-named he information he shipper has arolina Radioa	shipper to the Sou provided herein i	the provisions as required by						
	and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Construction of the Const	e above-named he information he shipper has arolina Radioa	shipper to the Sou provided herein i complied with all ctive Waste Transp	the provisions as required by						
	and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Control Date	e above-named he information he shipper has arolina Radioa	shipper to the Sou provided herein i complied with all ctive Waste Transp	the provisions as required by cortation and Disposal Act						
	and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Construction of the Const	e above-named he information he shipper has arolina Radioa on Supt. Shipper	shipper to the Sou provided herein i complied with all ctive Waste Transp	the provisions as required by cortation and Disposal Act						
	and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Constructs G.E. Walck - Constructs Typed Name and Title of Agent of	e above-named he information he shipper has arolina Radioa on Supt. Shipper	shipper to the Sou provided herein i complied with all ctive Waste Transp Signature (the provisions as required by portation and Disposal Act G.E. Walck)						
	and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Construction of No. 499 of 1980, the South Constructi	e above-named he information he shipper has arolina Radioa on Supt. Shipper CONSIGNEE AC	shipper to the Sou provided herein i complied with all ctive Waste Transp Signature (the provisions as required by portation and Disposal Act G.E. Walck)						
	and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Constructs G.E. Walck - Constructs Typed Name and Title of Agent of	e above-named he information he shipper has arolina Radioa on Supt. Shipper CONSIGNEE AC	shipper to the Sou provided herein i complied with all ctive Waste Transp Signature (the provisions as required by cortation and Disposal Act						
	and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Construction of No. 499 of 1980, the South Constructi	e above-named he information he shipper has arolina Radioa on Supt. Shipper CONSIGNEE AC	shipper to the Sou provided herein i complied with all ctive Waste Transp Signature (the provisions as required by portation and Disposal Act G.E. Walck)						
	and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Construction of No. 499 of 1980, the South Constructi	e above-named he information he shipper has arolina Radioa on Supt. Shipper CONSIGNEE AC	shipper to the Sou provided herein i complied with all ctive Waste Transp Signature (CKNOWLEDGEMENT partment of Health ment was received	the provisions as required by cortation and Disposal Act G.E. Walck) and Environmental Control that						
	and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Constructs G.E. Walck - Constructs Typed Name and Title of Agent of the acknowledges to the South the above-described radioacts	e above-named he information he shipper has arolina Radioa on Supt. Shipper CONSIGNEE AC	shipper to the Sou provided herein i complied with all ctive Waste Transp Signature (CKNOWLEDGEMENT partment of Health ment was received	the provisions as required by portation and Disposal Act G.E. Walck)						
	and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Construction of No. 499 of 1980, the South Constructi	e above-named he information he shipper has arolina Radioa on Supt. Shipper CONSIGNEE AC	shipper to the Sou provided herein i complied with all ctive Waste Transp Signature (CKNOWLEDGEMENT partment of Health ment was received	the provisions as required by cortation and Disposal Act G.E. Walck) and Environmental Control that						
	and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Constructs G.E. Walck - Constructs Typed Name and Title of Agent of the acknowledges to the South the above-described radioacts	e above-named he information he shipper has arolina Radioa on Supt. Shipper CONSIGNEE AC	shipper to the Sou provided herein i complied with all ctive Waste Transp Signature (CKNOWLEDGEMENT partment of Health ment was received	the provisions as required by cortation and Disposal Act G.E. Walck) and Environmental Control that						
	and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Constructs G.E. Walck - Constructs Typed Name and Title of Agent of the acknowledges to the South the above-described radioacts	e above-named he information he shipper has arolina Radioa on Supt. Shipper CONSIGNEE AC	shipper to the Sou provided herein i complied with all ctive Waste Transp Signature (CKNOWLEDGEMENT partment of Health ment was received	the provisions as required by cortation and Disposal Act G.E. Walck) and Environmental Control that						

DHEC 802

Original. S. Carolina

Copy: Chem- Nuclear

DA DIMENS

Form RHA-PNC (5/80)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTRL Radioactive Waste Shipment Prior Notification and Manifest Form

<u> </u>									
Sec 1 Name and Address of Shipper	Reverse Side	for Instructions 2. Person Res	sponsible for Radioactive						
Umetco Minerals Corpora	tion	Waste Shipment C. F. Walck							
137 47th Street	Sent 展7-	(a) Name G.E. Walth (b) Title Construction Superinter							
Niagara Falls, NY 14302		(c) Telephone No. (716)278-3361							
3. Radioactive Waste Transport Pe	ermit No	4. Shipment Identification No.							
0211-31-84-X		0984-213A							
5. Location from which waste wil	l be shipped	6 Name and Address of Consignee							
Same as (1) above		Chem-Nu	clear Systems, Inc.						
		P.O. Box	x /26 1. South Carolina 29812						
7 Scheduled Date of Departure o	f Shipment	Barnwel 8. Estimated	Date of Arrival of Shipment						
	. Direktoria								
September 10, 1984	110 0 0	Septemb Cransport Vehicle	er 13, 1984						
9 Carrier			(if available)						
Trı-State Motor Transıt	Closed								
12 Routes shipment will follow	in State of Sou	ith Carolina (Be S	pecific)						
T CO T OC NO 221 O	a 2 1 a	0 (1							
I-20, I-26, US-321, S.	C. 3 and S.	C. 64							
13 Type Container or Cask	Manifest 14 Contain		15 Total No. of Containers						
	ţ		8						
Wood Boxes		73.392 (c)	8 t Radionuclides						
16 Waste Description, Physical Chemical Form Contaminat	and ed Soll		m (Nat.) .0028						
Metal Oxides, Bldg. Rubb		1	m (Nat.) .004						
and Plant Hardware		<u> </u>	20. Total Cubic Feet						
18. Total Curles (mC1)	19 Transpor	rt Group							
.054	III		520						
	ed quantities	Normal Form [] Type A quantity [] Type B quantity [] Large quantity	[] Type B quantity [] Class II						
	CERTIF	ICATION							
and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Control of th	the information	complied with all	The broatstons as reduced						
Date		/	_						
C F Holek Constructs	on Cunt	154	Wallet .						
G.E. Walck - Constructi Typed Name and Title of Agent o	f Shipper	Signature (G.E. Walck)						
Typed name and Title of Agent of	- Direct	(G.D. Watch)						
	CONSTRUCT NO	KNOWLEDGEMENT							
This acknowledges to the Sou the above-described radioact	th Carolina Dep ive waste shipm	partment of Health ment was received	and Environmental Control that						
Date of Delivery		Signature o	f Consignee or authorized						
		Typed or Pr	inted Name and Title						

DHEC 802

Original: S. Carolina

Copy. Chem- Nuclear

Form RHA-PNC (5/80)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTRL Radioactive Waste Shipment Prior Notification and Manifest Form

		C							
		for Instructions	sponsible for Radioactive						
 Name and Address of Shipper Umetco Minerals Corpora 	1 1 0 n	Waste Shi	nment						
137 47th Street		(a) Name	G.E. Walck						
)	(b) Title Construction Superintend							
Niagara Falls, NY 14302		(c) Telephone No. (716)278-3361							
3. Radioactive Waste Transport F	Permit No	4. Shipment Identification No. ·							
0211-31-84-X		0984-213A							
5. Location from which waste wil	1 be shipped	6. Name and	Address of Consignee						
Same as (1) above	.r ze zmerre	l .	ıclear Systems, Inc.						
i v		P.O. Box 726 Barnwell, South Carolina 29812 B. Estimated Date of Arrival of Shipment							
7. Scheduled Date of Departure of	of Shipment	8. Estimated	Date of Arrival of Shipment						
September 10, 1984		Septemb	per 13, 1984						
9. Carrier	10 Type of T	ransport Vehicle	ll Trailer No. and Owner						
Tri-State Motor Transit	Closed	Van	(if available)						
			1						
12. Routes shipment will follow	in State of Sou	ith Carolina (Be S	specific)						
T "O T 26 UG 221 O	0 0 1 0	0 (1							
I-20, I-26, US-321, S	.c. 3 and 5.	C. 64							
	Manıfest		15. Total No of Containers						
13 Type Container or Cask	14 Contair	ner Spec	15. Total No of containers						
Wood Boxes	CFR 49 1	73.392 (c)	8						
16 Waste Description, Physical	and		nt Radionuclides						
Chemical Form Contaminat	ted Soil,	Uranio	ım (Nat.) .0028						
Metal Oxides, Bldg. Rubl		Thoriu	ım (Nat.) .004						
and Plant Hardware		l	20 Total Cubic Feet						
18 Total Curies (mC1)	19. Transpor	t Group							
.054	III		520						
	ed quantities adioactive	Normal Form [] Type A quantity [] Type B quantity [] Large quantity	Special Form Fissile y [] Type A quantity [] Class I y [] Type B quantity [] Class II [] Large quantity [] Class III						
	GERMAN	CAMION							
	CERTIF	ICATION							
I hereby certify on behalf of t and Environmental Control that best of my knowledge, and that Act No 499 of 1980, the South	the information	complied with al	1 the provisions as required -;						
Date									
		10	20 1						
G.E. Walck - Construct:	ion Supt.	6.2.9	valek						
Typed Name and Title of Agent o		Signature ((G.E. Walck)						
-11			·						
	CONCIONEE AC	KNOWLEDGEMENT							
This acknowledges to the Sou the above-described radioact	th Carolina Dep	artment of Health ent was received	and Environmental Control that						
Date of Delivery	·	Signature c	of Consignee or authorized						
		Typed or Pr	rinted Name and Title						

Original. S. Carolina Copy Chem- Nuclear

Form RHA-CT (5/80)

SCUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL Radioactive Waste Shipment Certification Form

General Instructions and Information: This is a two part form to be used by shippers and carriers of radioactive waste. The certifications contained herein satisfy the requirements of Section 13-7-150, of Act No. 499 of 1980; the South Carolina Radioactive Waste Transportation and Disposal Act. This certification along with a copy of the prior notification form shall accompany each shipment of radioactive waste into and within the State of South Carolina. The shipper is to complete his portion of the form and present it to the carrier as part of the shipping documents. Upon receipt, the carrier shall complete his portion of the form. Upon delivery of the shipment to the consignee, a copy of this certification form, and a copy of the Prior Notification and Manifest form with the consignee acknowledgement, shall be returned to the Department.

the Department.	- Compliance
Part I:	Shipper's Certificate of Compliance
 Name of Shipper and Address: 	2. Shipment Identification No.
Umetco Minerals Corporation	0984-213A
137 - 47th Street Niagara Falls, NY 14302	3. Transport Permit No. 0211-31-84-X
Telephone No. (716) 278-3361	

In compliance with Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act, I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the above-named shipper has complied with all provisions of Act No. 499 of 1980, and all applicable laws and administrative rules and regulations, both State and Federal, regarding the packaging, transportation, storage, disposal and delivery of such wastes. I further certify that this shipment of radioactive waste has been inspected within 48 hours of the time of departure and that no items of non-compliance with applicable laws, rules or regulations were found.

Date	September	10,	1984	
------	-----------	-----	------	--

G. E. Walck, Construction Superintendent
Typed Name and Title of Agent of Shipper

Signature

Part II: Carrier's Certification				
l. Name of Carrier and Address:	2. Shipment Identification No.			
Tri-State Motor Transit Company	0984-213A			
P. O. Box 113 Joplin, Missouri 64801 Telephone No. (800) 641-7591	3. Transport Trailer No. 448122			
1. Scheduled Date of Departure of Shipment: September 10, 1984	5. Estimated Date of Arrival of Shipment: September 13, 1984			

Certification is hereby made to the South Carolina Department of Health and Environmental Control that: (a) the shipper has provided the carrier with a copy of the shipment manifest, the certificate of compliance, and the routing instructions; (b) the shipment of radioactive waste has been properly placarded for transport according to applicable U.S. Department of Transportation Regulations; (c) all shipping papers originated or reproduced by the carrier have been properly executed; (d) the transport vehicle has been inspected according to applicable State and Federal regulations within the prescribed intervals and that all safety and operational components are in good working order and meet the requirements of regulations; (e) all drivers who will operate the vehicle within the State of South Carolina are qualified to transport hazardous materials as specified by applicable U.S. Department of Transportation regulations; (f) the Department shall be immediately notified of any variance, occurring after departure, from the shipper's notification of primary routes in South Carolina and estimated date of arrival; (g) all applicable laws and administrative rules and regulations, both State and Federal, regarding the transportation of radioactive wastes will be complied with.

Date	September 10, 1984	
Typed or	Printed Name and Title	Signature

DHEC 803

3.0 AT DESTINATION (Union Carbide Corporation, Uravan, Colorado)

- 3.1 Give notification of arrival and receive guidance to unloading site.
- 3.2 Examine security seals and inspect outside of truck for damage or pilfering.
- 3.3 The shipment must be unloaded by Consignor from the transport vehicle in which originally loaded.
- 3.4 UCC or its representative will certify vehicles clean and available for Unrestricted Use and decontaminate if necessary.

4.0 PENALTY

4.1 Any deviation from these instructions or violations of State and Federal laws could result in carrier penalty.

Driver's Signature